

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Daniela RADDINO et al.

Filed: Filed Concurrently Herewith

Title of Invention: METHOD FOR RECOGNIZING SPEECH

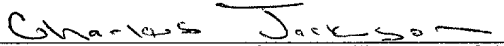
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PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Box Patent Application (35 U.S.C. 111)
Washington, D.C. 20231

Sir:

Before the issuance of the first Office Action, please amend the above-identified application as follows:

IN THE CLAIMS:

Please amend 3-7 and 9-14 as follows:

3. (Amended) Method according to claim 1,
wherein at least one statistical model, garbage model (GM) and/or the like is
used as said out-of-vocabulary model (OOVM).

4. (Amended) Method according to claim 1,
wherein said out-of-vocabulary model (OOVM) and in particular said garbage model (GM) is chosen to contain at least a phone* grammar or the like.
5. (Amended) Method according to claim 1,
wherein said variable penalty value (P_{trans} , P_1 , ..., P_6) is associated with a transition (T) of the recognition process (12), in particular from a keyword model (KM) to an out-of-vocabulary model (OOVM).
6. (Amended) Method according to claim 1,
wherein said variable penalty value (P_{trans} , P_1 , ..., P_6) is - in particular in each case - associated with a recognition step and/or recognition or processing time of said recognition process (12) within said out-of-vocabulary model (OOVM) or a garbage model (GM).
7. (Amended) Method according to claim 1,
wherein a lattice structure of recognition paths or the like is used in said keyword model (KM) and/or said out-of-vocabulary (OOVM) or garbage model (GM).
9. (Amended) Method according to claim 1,
wherein a Markov model, and in particular a single state Markov model, is at least contained in said out-of-vocabulary model (OOVM) or garbage model (GM), and
wherein a variable penalty value (P_1 , ..., P_6) is associated with self-transitions of the recognition process within said Markov model.
10. (Amended) Method according to claim 1,
wherein a variable penalty value is associated with all transitions in a Markov model.

11. (Amended) Method according to claim 1,
wherein said variable penalty value (Ptrans, P1, ..., P6) is made dependent on the particular application, the application status and/or on user preferences.
12. (Amended) Method according to claim 1,
wherein said variable penalty value (Ptrans, P1, ..., P6) is varied interactively, in particular by an user action via an user interface.
13. (Amended) Method according to claim 1,
wherein said variable penalty value (Ptrans, P1, ..., P6) is hold and stored in a randomly accessible manner in particular within the model statistical information of the language model (LM).
14. (Amended) Method according to claim 1,
wherein likelihoods (LKM, LGM), global scores or the like for recognition results in said keyword model (KM) and in said out-of-vocabulary model (OOVM) - in particular said garbage model (GM) - are determined, the latter of which being variably penalized, and
wherein a recognition result (RSP) is accepted with the keyword model likelihood (LKM) being larger than a respective out-of-vocabulary model likelihood (LGM), and is rejected as being out of vocabulary otherwise.

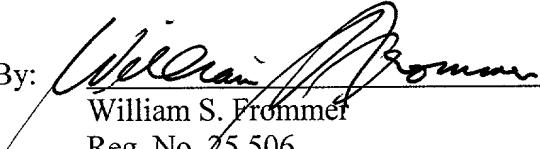
REMARKS

Claims 1-14 remain in the application. Claims 3-7 and 9-14 have been amended to eliminate multiple dependencies. Attached hereto is a marked up version of the changes made to claims 3-7 and 9-14 by the current amendment. The attached page is captioned “Version with

markings to show changes made. The filing fee has been calculated based upon these amendments to the claims.

Respectfully submitted,

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1002176-121201

In the claims:

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Box PATENT APPLICATION
Washington, D.C. 20231

Sir:

Enclosed are copies of references which were cited in
the search report of December 3, 2001 from the European Patent
Office in connection with the corresponding European patent
application. Also enclosed is a copy of Form PTO-1449. Entry of
this Information Disclosure Statement and an early examination on
the merits are respectfully solicited.

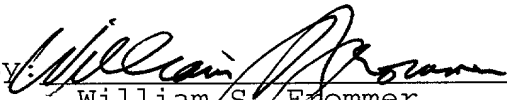
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Respectfully submitted,

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100276-24201

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	APPLICANT Daniela RADDINO et al.	
	FILING DATE Filed Concurrently Herewith	GROUP

LIST OF REFERENCES CITED BY APPLICANT
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6 058 363	05/02/00	Ramalingam			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL	GB 2 347 252	08/30/00	U.K.			
	AM	EP 0 762 709	03/12/97	Europe			
	AN						
	AO						
	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	TSIPORKOVA E ET AL: "EVALUATION OF VARIOUS CONFIDENCE-BASED STRATEGIES FOR ISOLATED WORD REJECTION" 2000 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING. PROCEEDINGS (CAT. NO. 00CH37100), PROCEEDINGS OF 2000 INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, ISTANBUL, TURKEY, 5-9 June 2000, pages 1819-1822, vol. 3, XP002183427

EXAMINER	DATE CONSIDERED
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.